

I. AMENDMENT OF THE CLAIMS

1. (Currently amended) A method for therapeutic management of infertility and increasing the quality of fertilized oocytes and embryos by programming controlled ovarian stimulation (COS) and assisted reproductive techniques (ART) in order to optimize oocyte harvesting and fertilization, the method comprising the following steps:

a) programming the start of a treatment cycle comprising COS by inducing the start of menses by administering a compound selected from the group consisting of a LHRH antagonist selected from the group consisting of cetrorelix, leuprorelix, ganirelix, antide, and abarelix, a progestogen only preparation, a combined oral contraceptive preparation, and a combination thereof;

wherein the LHRH antagonist is selected from the group consisting of cetrorelix, leuprorelix, ganirelix, antide, and abarelix and is administered at a dosage range between 0.5 mg to 10 mg during the luteal phase of the menstrual cycle preceding the treatment cycle; and

wherein the progestogen-only preparations and/or the combined oral contraception preparations are administered starting during the luteal phase of the menstrual cycle prior to the preceding menstrual cycle, or on day 1 or 2 of the preceding menstrual cycle;

b) stimulating ovarian follicle growth by administering a compound selected from the group consisting of urinary FSH, recombinant FSH, HMG, recombinant LH, clomiphene, and a combination thereof;

c) suppressing premature ovulation by administering a LHRH [-] antagonist selected from the group consisting of cetrorelix, leuprorelix, ganirelix, antide, and abarelix during the follicular stage of the treatment cycle;

d) inducing ovulation by administering HCG; and

e) applying assisted reproduction techniques.

2-3. (Canceled)

4. (Currently amended) The method of claim 1, wherein the administration of the progestogen only [-] preparation or combined oral contraceptive preparations or LHRH

antagonist or combinations thereof is completed on Mondays to Thursdays to obtain start of menstrual bleeding and of ovarian stimulation therapy on Fridays to Mondays and scheduling and undertaking of oocyte pick up and further ART procedures on Mondays to Thursdays.

5. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is cetrorelix.

6. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is leuprorelin.

7. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is ganirelix.

8. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is antide.

9. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which the LHRH [-] antagonist that is administered in step (c) is abarelix.

10-15. (Canceled)

16. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which step (a) comprises administering the LHRH antagonist cetrorelix with a dosage of 0.5 to 10 mg.

17. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which step (a) comprises administering the LHRH antagonist teverelix with a dosage of 0.5 to 10 mg.

18. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which step (a) comprises administering the LHRH antagonist ganirelix with a dosage of 0.5 to 10 mg.

19. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which step (a) comprises administering the LHRH antagonist arlide with a dosage of 0.5 to 10 mg.

20. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, in which step (a) comprises administering the LHRH antagonist abarelix with a dosage of 0.5 to 10 mg.

21. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the stimulation is performed by administration of urinary FSH or recombinant FSH or HMG, or recombinant LH, or a combination thereof.

22. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the ovarian stimulation is achieved with clomiphene.

23. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the ovarian stimulation is achieved with the combination of antioestrogens with gonadotropins.

24. (Previously Presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1 in which the ovarian stimulation is achieved with the combination of clomiphene with gonadotropins

25. (Previously presented) The method of therapeutic management of infertility by programming of controlled ovarian stimulation and assisted reproductive technique procedures according to claim 1, wherein step (c) comprises applying IVF, ICSI, GIFT, ZIFT or intrauterine insemination via sperm injection.